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The relationship between the elastic and the optical anisotropy was studied for silicates and a few other minerals. It was found for silicates that in the direction of the large refractive index, the longitudinal wave velocity is larger and the linear compressibility is smaller, and in the direction of the small refractive index, the longitudinal wave velocity is smaller and the linear compressibility is larger. This relation is represented by the empirical formula that $\Delta V = 67 \Delta N$ km/s and the anisotropy on the linear compressibility is $12.5 \Delta N$, where ΔN is double refraction and ΔV is the value of the anisotropy on the longitudinal wave velocity. However the relationship of ΔV to ΔN is considerably different from the relationship between the mean longitudinal wave velocity and the mean optical refractive index.
 $\Delta V / \Delta N = 19.5$ km/s

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